

SEQUENCE LISTING

<110> Herr, John C.
 5 Shetty, Jagathapala
 Wolkowicz, Michael
 Jayes, Friederike
 Hao, Zhonglin

10 <120> Sperm Specific Proteins

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 <150> 60/176,885
 <151> 2000-01-19

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 <170> PatentIn Ver. 2.1

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25 <211> 1337
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 <213> Homo sapiens

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 gagcataact gtgacacctg atgaagagca aaacttgaat cattatatac aagttttaga 180

35 gaacctagta cgaagtgttc cctctgggga gccaggctgt gagaaaaaat ctaactctcc 240

 aaaacatggt tattctatag catcaaaggg atcaaaattt aaggagctag ttacacatgg 300

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 5 ctggtcgatc aaaccaaaca atgtttccat tgttttgcat gcagaggaac cttatattga 480
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 10 gttgccagtt gttactgaat catctacaag tccatatgtt acctcataca agtcacctgt 600
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 gctctcaggt gaaactgcga tagaaaaacc cgaagagttt ggaaagcacc cagagagttg 720
 15 gaataatgat gacattttga aaaaaatttt agatattaat tcacaagtgc aacaggcact 780
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 20 aaaaccagc cttgctctag cagcagcagc agaacataaa ttaaaaacaa tgtataagtc 900
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 25 agagatgaga gaaaaagctg ctacagtatt caatacatta aaaaatatgt gtagatcaag 1080
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 30 gatattccat aacaaagctg atttaagcaa actgcatttt ttcacaggag aaataatcat 1200
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<210> 2

<211> 350

<212> PRT

<213> Homo sapiens

5

<400> 2

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10 Val Pro Ala Tyr Pro Ser Ile Thr Val Thr Pro Asp Glu Glu Gln Asn
 20 25 30

Leu Asn His Tyr Ile Gln Val Leu Glu Asn Leu Val Arg Ser Val Pro
 35 40 45

15

Ser Gly Glu Pro Gly Arg Glu Lys Lys Ser Asn Ser Pro Lys His Val
 50 55 60

20 Tyr Ser Ile Ala Ser Lys Gly Ser Lys Phe Lys Glu Leu Val Thr His
 65 70 75 80

Gly Asp Ala Ser Thr Glu Asn Asp Val Leu Thr Asn Pro Ile Ser Glu
 85 90 95

25 Glu Thr Thr Thr Phe Pro Thr Gly Gly Phe Thr Pro Glu Ile Gly Lys
 100 105 110

Lys Lys His Thr Glu Ser Thr Pro Phe Trp Ser Ile Lys Pro Asn Asn
 115 120 125

30

Val Ser Ile Val Leu His Ala Glu Glu Pro Tyr Ile Glu Asn Glu Glu
 130 135 140

35 Pro Glu Pro Glu Pro Glu Pro Ala Ala Lys Gln Thr Glu Ala Pro Arg
 145 150 155 160

Met Leu Pro Val Val Thr Glu Ser Ser Thr Ser Pro Tyr Val Thr Ser
 165 170 175

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Tyr Lys Ser Pro Val Thr Thr Leu Asp Lys Ser Thr Gly Ile Glu Ile
 180 185 190

5 Tyr Thr Glu Ser Glu Asp Val Pro Gln Leu Ser Gly Glu Thr Ala Ile
 195 200 205

Glu Lys Pro Glu Glu Phe Gly Lys His Pro Glu Ser Trp Asn Asn Asp
 210 215 220

10 Asp Ile Leu Lys Lys Ile Leu Asp Ile Asn Ser Gln Val Gln Gln Ala
 225 230 235 240

Leu Leu Ser Asp Thr Ser Asn Pro Ala Tyr Arg Glu Asp Ile Glu Ala
 15 245 250 255

Ser Lys Asp His Leu Lys Pro Ser Leu Ala Leu Ala Ala Ala Glu
 260 265 270

20 His Lys Leu Lys Thr Met Tyr Lys Ser Gln Leu Leu Pro Val Gly Arg
 275 280 285

Thr Ser Asn Lys Ile Asp Asp Ile Val Thr Val Ile Asn Met Leu Cys
 290 295 300

25 Asn Ser Arg Ser Lys Leu Tyr Glu Tyr Leu Asp Ile Lys Cys Val Pro
 305 310 315 320

Pro Glu Met Arg Glu Lys Ala Ala Thr Val Phe Asn Thr Leu Lys Asn
 30 325 330 335

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR primer

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<221> primer_bind

<222> (1)..(22)

10 <400> 3

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<210> 4

15 <211> 30

<212> DNA

<213> Artificial Sequence

<220>

20 <223> Description of Artificial Sequence: PCR Primer

<220>

<221> primer_bind

<222> (1)..(30)

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<400> 4

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30 <210> 5

<211> 43

<212> DNA

<213> Artificial Sequence

35 <220>

<223> Description of Artificial Sequence: PCR Primer

<220>

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<221> primer_bind
<222> (1)..(43)

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10 <212> DNA
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20 <400> 6
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25 <211> 14
    <212> PRT
    <213> Homo sapiens

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    1             5             10

<210> 8
35 <211> 1455
    <212> DNA
    <213> Homo sapiens

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5 ggctggctgc ttctggcggg cctccagtcc gcgcgcggga ccaacgtcac cgctgccgtc 180

caggatgccg gcctggccca cgaaggcgag ggcgaggagg agaccgaaaa caacgacagc 240

10 gagaccgcgg agaactacgc tccgcctgaa accgaggatg tttcaaatag gaatgtcgtc 300

aaagaagtag aattcggaat gtgcaccgtt acatgtggta ttggggttag agaagttata 360

ttaacaaatg gatgccctgg tggatgaatcc aagtgtgttg tacgggtaga agaatgccgt 420

15 ggaccaacag attgtggctg gggtaaacca atttcagaaa gtcttgaaag tgtagattg 480

gcatgtattc acacatctcc cttaaactcg ttcaaata tgtggaaact tctaagacaa 540

20 gaccaacaat ccattatact tgtaaatagat tcagcaatcc tagaagtacg caaggaaagt 600

cacccttgg ctttcgagtg tgacacactg gataataatg aaatagtagc aactattaaa 660

ttcacagtct atacgagcag tgaattgcag atgagaagat caagcctacc agccactgat 720

25 gcagccctaa tttttgtgct gaccatagga gtcattatct gtgtatttat aattttctta 780

ttgatcttca taatcataaa ttgggcagca gtcaaggctt tttggggggc aaaagcctct 840

30 acacctgagg tacaatccga gcagagttct gtgagatata aagattcaac ttctcttgac 900

caattaccaa cagaaatgcc tggatgaagat gatgctttta gtgaatggaa tgaatgatgt 960

ttgaatgata tataacaaac caaaggatat tacagaatat tagattcatt attacaaaaa 1020

35 taaaatacac attgaaatac tttaataatg ttgcgatgga ttgccacagt gtgaaggaaa 1080

tgcagtgtgg ggataggact attttatcag tgcatttttc cagtacagtt atcaaatatt 1140

-8-

acttttaatt tgttctcaac acttatttca ggtaatagct tggggatatt tatctaaagt 1200

acccccaaca aatcttctaa gtgcattttt gatcactttg ataacttctt aggtgatttg 1260

5 cctgttttgt cttaaataag aacaatgtaa tatagaaatg ctttacatat tagactttct 1320

ctcccctgga agcactgggt tgaacttgct aaagtaaadc atactttaga atctcttcag 1380

10 ggaatgtgac atacaaagtt tgtaagacat gaagtaataa cgataatgat aacaataaat 1440

gcttacttag tgaaa 1455

15 <210> 9
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 <212> PRT
 <213> Homo sapiens

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Gly Trp Leu Leu Leu Ala Gly Leu Gln Ser Ala Arg Gly Thr Asn Val
 25 20 25 30

Thr Ala Ala Val Gln Asp Ala Gly Leu Ala His Glu Gly Glu Gly Glu
 35 40 45

30 Glu Glu Thr Glu Asn Asn Asp Ser Glu Thr Ala Glu Asn Tyr Ala Pro
 50 55 60

Pro Glu Thr Glu Asp Val Ser Asn Arg Asn Val Val Lys Glu Val Glu
 65 70 75 80

35 Phe Gly Met Cys Thr Val Thr Cys Gly Ile Gly Val Arg Glu Val Ile
 85 90 95

[illegible]

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<210> 10
<211> 22
<212> DNA
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<220>
<223> Description of Artificial Sequence: PCR Primer

<220>
10 <221> primer_bind
<222> (1)..(22)

<400> 10
agtcaccctt tggcttttga gt 22
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<210> 11
<211> 24
<212> DNA
20 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

25 <220>
<221> primer_bind
<222> (1)..(24)

30 <400> 11
aatattctgt aatatccttt gggt 24

<210> 12
35 <211> 24
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: PCR Primer

<220>
5  <221> primer_bind
   <222> (1) .. (24)

<400> 12
10 ctttgtatgt cacattccct gaag                                     24

<210> 13
<211> 24
<212> DNA
15 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR Primer

20 <220>
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   <222> (1) .. (24)

<400> 13
25 gaggtacaat ccgagcagag ttct                                     24

<210> 14
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30 <212> DNA
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ttcagcgggt cccggagggtc tgggaagccc acggcctggc tggggcaggg tcaacgccgc 180

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cagggcgcca tggctcctgtg ctggctgctg cttctggtga tggctctgcc cccaggcacg 240
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 5 tacatgcact gtggcgatga cgaggactgc ttcacaggcc acgggggtcgc cccgggcact 360
 ggtccggtca tcaacaaagg ctgcctgcga gccaccagct gcggccttga ggaacccgtc 420
 10 agctacaggg gcgtcaccta cagcctcacc accaactgct gcaccggccg cctgtgtaac 480
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 20 <213> Homo sapiens
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 tgtggcgatg acgaggactg cttcacaggc cacggggtcg cccggggcac tggcccggtc 180
 atcaacaaag gctgcctgcg agccaccagc tgcggccttg aggaacccgt cagctacagg 240
 30 ggcgtcacct acagcctcac caccaactgc tgcaccggcc gcctgtgtaa cagagccccg 300
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 35 ccacgtttgc tgtga 375

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<210> 16

<211> 124

<212> PRT

<213> Homo sapiens

5

<400> 16

Met Val Leu Cys Trp Leu Leu Leu Leu Val Met Ala Leu Pro Pro Gly
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10 Thr Thr Gly Val Lys Asp Cys Val Phe Cys Glu Leu Thr Asp Ser Met
 20 25 30

Gln Cys Pro Gly Thr Tyr Met His Cys Gly Asp Asp Glu Asp Cys Phe
 35 40 45

15

Thr Gly His Gly Val Ala Pro Gly Thr Gly Pro Val Ile Asn Lys Gly
 50 55 60

20 Cys Leu Arg Ala Thr Ser Cys Gly Leu Glu Glu Pro Val Ser Tyr Arg
 65 70 75 80

Gly Val Thr Tyr Ser Leu Thr Thr Asn Cys Cys Thr Gly Arg Leu Cys
 85 90 95

25

Asn Arg Ala Pro Ser Ser Gln Thr Val Gly Ala Thr Thr Ser Leu Ala
 100 105 110

30 Leu Gly Leu Gly Met Leu Leu Pro Pro Arg Leu Leu
 115 120

<210> 17

<211> 569

35

<212> DNA

<213> Homo sapiens

-14-

<400> 17

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ccgtcagcta caggggcgtc acctacagcc tcaccaccaa ctgctgcacc ggccgcctgt 120

5 gtaacagagc cccgagcagc cagacagtgg gggccaccac cagcctggca ctggggctgg 180

gtatgctgct tcctccacgt ttgctgtgac caacagggag gacagggcct gggactgttc 240

10 tcccagatcc gccactcccc atgtcccat gtccttcccc cactaaatgg ccagagaggc 300

cctggacaac ctcttgcggc cctggcttca tcccttctaa ggctgtccac caggagcccc 360

gtgctagggg aagcatcccc aggcctgact gagcggcagg ggagcacggc ccgtggggtt 420

15 gattgtatta ctctgttcca ctggttctaa gacgcagagc ttctcacatc tcaatcagga 480

tgcttctctc cattggtagc acttttagagt ccatgaaata tggtaaaaaa tatatatata 540

20 tcataataaa tgacagctga tgttcaaaa 569

<210> 18

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25 <212> DNA

<213> Homo sapiens

<400> 18

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30 aaggactgcg tcttctgtga gctcaccgac tccatgcagt gtcttggtac ctacatgcac 120

tgtggcgatg acgaggactg cttcacaggc cacggggctg ccccg 166

35

<213> Homo sapiens

10

<213> Homo sapiens

Leu Gly Leu Ala Leu Ser Leu Leu Ala Val Ile Leu Ala Pro Ser Leu
115 120 125